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- [Visualizing berkeley socket calls in students' programs](#)
 Christian Brown, Chris McDonald
 June 2007 **ITICSE '07: Proceedings of the 12th annual SIGCSE conference on Innovation and technology in computer science education**
Publisher: ACM [Request Permissions](#)
 Full text available: [Pdf](#) (307.40 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 78, Downloads (Overall): 372, Citation Count: 1

The Berkeley Sockets API is a library of functions, macros, and data structures enabling a program to initiate and manage network communication between two or more processes on the same machine, or across a network of machines. The API is the main mechanism ...

Keywords: courseware, internetworking, systems programming

Also published in:

 June 2007 **SIGCSE Bulletin** Volume 39 Issue 3

- [ACT: attachment chain tracing scheme for email virus detection and control](#)
 Jintao Xiong
 October 2004 **WORM '04: Proceedings of the 2004 ACM workshop on Rapid malware analysis**
Publisher: ACM [Request Permissions](#)
 Full text available: [Pdf](#) (283.77 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 34, Downloads (Overall): 873, Citation Count: 1

Modern society is highly dependent on the smooth and safe flow of information over communication and computer networks. Computer viruses and worms pose serious threats to the society by disrupting the normal information flow and collecting or destroying ...

Keywords: contact tracing, transmission chain, worm defense

- [IP Easy-pass: a light-weight network-edge resource access control](#)
 Haining Wang, Abhijit Bose, Mohamed El-Gendy, Kang G. Shin
 December 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 6
Publisher: IEEE Press
 Full text available: [Pdf](#) (721.97 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 36, Downloads (Overall): 530, Citation Count: 2

Providing real-time communication services to multimedia applications and subscription-based Internet access often requires that sufficient network resources be reserved for real-time traffic. However, the reserved network resource is susceptible to ...

Keywords: network QoS, resource access control

4 [Communications of the ACM: Volume 52 Issue 6](#)



June 2009

Communications of the ACM

Publisher: ACM

Full text available: Digital Edition , Pdf (6.34 MB)

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 452, Downloads (12 Months): 1660, Downloads (Overall): 1660, Citation Count: 0

5 [A survey of peer-to-peer content distribution technologies](#)



[Stephanos Androutsellis-Theotokis](#), [Dionidis Spinellis](#)

December 2004

Computing Surveys (CSUR) , Volume 36 Issue 4

Publisher: ACM

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Full text available: Pdf (517.77 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 267, Downloads (12 Months): 1969, Downloads (Overall): 17685, Citation Count: 108

Distributed computer architectures labeled "peer-to-peer" are designed for the sharing of computer resources (content, storage, CPU cycles) by direct exchange, rather than requiring the intermediation or support of a centralized server or authority. ...

Keywords: Content distribution, DHT, DOLR, grid computing, p2p, peer-to-peer

6 [User-centric PKI](#)



[Radia Perlman](#), [Charlie Kaufman](#)

March 2008 **IDtrust '08**: Proceedings of the 7th symposium on Identity and trust on the Internet

Publisher: ACM

Full text available: Pdf (366.88 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 182, Downloads (Overall): 481, Citation Count: 0

The goal of supporting Single Sign-On to the Web has proven elusive. A number of solutions have been proposed -- and some have even been deployed -- but the capability remains unavailable to most users and the solutions deployed raise concerns for both ...

Keywords: PKI, authentication, single sign-on, web services

7 [Communications of the ACM: Volume 52 Issue 7](#)



July 2009

Communications of the ACM

Publisher: ACM

Full text available: Digital Edition , Pdf (7.61 MB)

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 306, Downloads (12 Months): 306, Downloads (Overall): 306, Citation Count: 0

8 [Communications of the ACM: Volume 51 Issue 6](#)



June 2008

Communications of the ACM

Publisher: ACM

Full text available: Digital Edition , Pdf (8.89 MB)

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 188, Downloads (12 Months): 413, Downloads (Overall): 3188, Citation Count: 0

9 [Communications of the ACM: Volume 51 Issue 11](#)



November 2008

Communications of the ACM

Publisher: ACM

Full text available: Digital Edition , Pdf (8.26 MB)

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 278, Downloads (12 Months): 566, Downloads (Overall): 3171, Citation Count: 0

10 [What can identity-based cryptography offer to web services?](#)



[Jason Crampton](#), [Hoon Wei Lim](#), [Kenneth G. Paterson](#)

November 2007 **SWS '07**: Proceedings of the 2007 ACM workshop on Secure web services

Publisher: ACM [Request Permissions](#)

Full text available: [PDF](#) (245.87 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 258, Downloads (Overall): 862, Citation Count: 0

Web services are seen as the enabler of service-oriented computing, a promising next generation distributed computing technology. Independently, identity-based cryptography is emerging as a serious contender to more conventional certificate-based public ...

Keywords: identity-based cryptography, message-level security, web services

11 [Communications of the ACM: Volume 51 Issue 9](#)



September 2008

Communications of the ACM

Publisher: ACM

Full text available: [Digital Edition](#), [PDF](#) (8.68 MB)

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 281, Downloads (12 Months): 537, Downloads (Overall): 4222, Citation Count: 0

12 [Communications of the ACM: Volume 51 Issue 12](#)



December 2008

Communications of the ACM

Publisher: ACM

Full text available: [Digital Edition](#), [PDF](#) (6.91 MB)

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 391, Downloads (12 Months): 775, Downloads (Overall): 4006, Citation Count: 0

13 [Just-in-time recovery of missing web pages](#)



[Terry L. Harrison](#), [Michael L. Nelson](#)

August 2006 **HYPERTEXT '06**: Proceedings of the seventeenth conference on Hypertext and hypermedia

Publisher: ACM [Request Permissions](#)

Full text available: [PDF](#) (911.47 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 44, Downloads (Overall): 251, Citation Count: 6

We present Opal, a light-weight framework for interactively locating missing web pages (http status code 404). Opal is an example of "in vivo" preservation: harnessing the collective behavior of web archives, commercial search engines, and research projects ...

Keywords: 404 web pages, apache web server, digital preservation

14 [Communications of the ACM: Volume 51 Issue 8](#)



August 2008

Communications of the ACM

Publisher: ACM

Full text available: [Digital Edition](#), [PDF](#) (6.85 MB)

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 203, Downloads (12 Months): 428, Downloads (Overall): 3141, Citation Count: 0

15 [Security and usability: the gap in real-world online banking](#)



[Mohammad Mannan](#), [P. C. van Oorschot](#)

July 2008 **NSPW '07**: Proceedings of the 2007 Workshop on New Security Paradigms

Publisher: ACM [Request Permissions](#)

Full text available: [PDF](#) (497.95 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 114, Downloads (12 Months): 581, Downloads (Overall): 581, Citation Count: 2

Online banking is one of the most sensitive tasks performed by general Internet users. Most traditional banks now offer online banking services, and strongly encourage customers to do online banking with 'peace of mind.' Although banks heavily advertise ...

Keywords: online banking, security requirements, usability

16 [Terra: a virtual machine-based platform for trusted computing](#)



[Tai Garfinkel](#), [Ben Pfaff](#), [Jim Chow](#), [Mendel Rosenblum](#), [Dan Boneh](#)

December 2003 **SOSP '03: Proceedings of the nineteenth ACM symposium on Operating systems principles**

Publisher: ACM [Request Permissions](#)

Full text available: [PDF](#) (140.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 50, Downloads (12 Months): 514, Downloads (Overall): 3651, Citation Count: 106

We present a flexible architecture for trusted computing, called Terra, that allows applications with a wide range of security requirements to run simultaneously on commodity hardware. Applications on Terra enjoy the semantics of running on a separate, ...

Keywords: VMM, attestation, authentication, trusted computing, virtual machine, virtual machine monitor

Also published in:

December 2003 **SIGOPS Operating Systems Review** Volume 37 Issue 5

17 [Communications of the ACM: Volume 51 Issue 3](#)



March 2008 **Communications of the ACM**

Publisher: ACM

Full text available: [Digital Edition](#), [PDF](#) (7.56 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 182, Downloads (12 Months): 407, Downloads (Overall): 2823, Citation Count: 0

18 [Communications of the ACM: Volume 51 Issue 1](#)



January 2008 **Communications of the ACM**

Publisher: ACM

Full text available: [Digital Edition](#), [PDF](#) (5.97 MB) Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 317, Downloads (12 Months): 584, Downloads (Overall): 6464, Citation Count: 0

19 [Communications of the ACM: Volume 51 Issue 2](#)



February 2008 **Communications of the ACM**

Publisher: ACM

Full text available: [Digital Edition](#), [PDF](#) (3.89 MB) Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 215, Downloads (12 Months): 403, Downloads (Overall): 3779, Citation Count: 0

20 [Communications of the ACM: Volume 52 Issue 3](#)



March 2009 **Communications of the ACM**

Publisher: ACM

Full text available: [Digital Edition](#), [PDF](#) (7.04 MB) Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 270, Downloads (12 Months): 745, Downloads (Overall): 2557, Citation Count: 0

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